

Substitute for form 1449A/B/PTO			Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Application Number	10/811,960	
			Filing Date	March 30, 2004	
			First Named Inventor	Atul PURI	
			Art Unit	2631	
			Examiner Name	Unassigned	
Sheet	1	of	2	Attorney Docket Number	13316/3294

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/A.H./	1	ZHIHAI HE, Y.K. KIM, and S.K. MITRA, "Low-delay rate control for DCT video coding via ρ -domain source modeling," IEEE Trans. on Circuits and Systems for Video Technology, Aug. 2001, vol. 11, no. 8	
	2	ZHIHAI HE and S.K. MITRA, "Optimum bit allocation and accurate rate control for video coding via ρ -domain source modeling," IEEE Trans. on Circuits and Systems for Video Technology, Oct. 2002, pp. 840-849, vol. 12, no. 10	
	3	ZHIHAI HE and S.K. MITRA, "A unified rate-distortion analysis framework for transform coding," IEEE Trans. on Circuits and Systems for Video Technology, Dec. 2001, pp. 1221-1236, vol. 11, no. 12	
	4	WEI DING, "Joint encoder and channel rate control of VBR video over ATM networks," IEEE Trans. on Circuits and Systems for Video Technology, Apr. 1996, pp. 266-278, vol. 7, no. 2	
	5	WEI DING and B. LIU, "Rate control of MPEG video coding and recoding by Rate-Quantization modeling," IEEE Trans. on Circuits and Systems for Video Technology, Feb. 1996, pp. 12-20, vol. 6, no. 1	
	6	I-MING PAO and MING-TING SUN, "Encoding stored video for streaming applications," IEEE Trans. on Circuits and Systems for Video Technology, Feb. 2001, pp. 199-209, vol. 11, no. 2	
	7	JORDI RIBAS-CORBERA and S.-M. LEI, "A frame-layer bit allocation for H.263+," IEEE Trans. on Circuits and Systems for Video Technology, Oct. 2000, pp. 1154-1158, vol. 10, no. 7	
	8	YAN YANG and S.S. HEMAMI, "Rate control for VBR video over ATM: Simplification and implementation," IEEE Trans. on Circuits and Systems for Video Technology, Nov. 2001, pp. 1045-1058, vol. 11, no. 9	
	9	SUPAVADEE ARAMVITH, I.-M. PAO, and M.-T. Sun, "A rate-control for video transport over wireless channels," IEEE Trans. on Circuits and Systems for Video Technology, May 2001, pp. 569-580, vol. 11, no. 5	
	10	I-MING PAO and M.-T. SUN, "Encoding stored video for streaming applications," IEEE Trans. on Circuits and Systems for Video Technology, Feb. 2001, pp. 199-209, vol. 11, no. 2	

Examiner Signature	/Anner Holder/	Date Considered	02/19/2008
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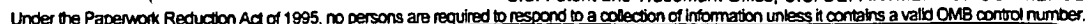
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/A.H./	11	LILLA BOROCZKY, A.Y. NGAI, and E.F. WESTERMAN, "Joint rate-control with look-ahead for multi-program video coding," IEEE Trans. on Circuits and Systems for Video Technology, Oct. 2000, pp. 1159-1163, vol. 10, no. 7	
	12	JORDIN RIBAS-CORBERA and S. LEI, "Rate control in DCT video coding for low-delay communications," IEEE Trans. on Circuits and Systems for Video Technology, Feb. 1999, pp. 172-185, vol. 9, no. 1	
	13	PO-YUEN CHENG, J. LI, and C.-C.J. Kuo, "Rate control for and embedded wavelet video coder," IEEE Trans. on Circuits and Systems for Video Technology, Aug. 1997, pp. 696-702, vol. 7, no. 4	
	14	KUO-CHIN FAN and K.-S. KAN, "An active scene analysis-based approach for pseudoconstant bit-rate video coding," IEEE Trans. on Circuits and Systems for Video Technology, Apr. 1998, pp. 159-170, vol. 8, no. 2	
	15	ASHISH JAGMOHAN and K. RATAKONDA, "MPEG-4 one-pass VBR rate control for digital storage," IEEE Trans. on Circuits and Systems for Video Technology, May 2003, pp. 447-452, vol. 13, no. 5	
	16	ANTHONY VETRO, H. SUN, and Y. WANG, "MPEG-4 rate control for multiple object coding," IEEE Trans. on Circuits and Systems for Video Technology, Feb. 1999, pp. 186-199, vol. 9, no. 1	
	17	JOSE I. RONDA, F. JAUREGUIZAR, and N. GARCIA, "Rate control and bit allocation for MPEG-4," IEEE Trans. on Circuits and Systems for Video Technology, Dec. 1999, pp. 1243-1258, vol. 9, no. 8	
	18	HUNG-JU LEE, T. CHIANG, and Y.-Q. ZHANG, "Scalable rate control for MPEG-4 video," IEEE Trans. on Circuits and Systems for Video Technology, Sept. 2000, pp. 878-894, vol. 10, no. 6	
	19	FENG PAN, Z. LI, K. LIM, and G. FENG, "A study of MPEG-4 rate control scheme and its improvements," IEEE Trans. on Circuits and Systems for Video Technology, May 2003, pp. 440-446, vol. 13, no. 5	
	20	JEONG-WOO LEE, A. VETRO, Y. WANG, and Y.-S. HO, "Bit allocation for MPEG-4 video coding with spatio-temporal tradeoffs," IEEE Trans. on Circuits and Systems for Video Technology, June 2003, pp. 488-502, vol. 13, no. 6	

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(Use as many sheets as necessary)

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First Named Inventor	Atul PURI, et al..
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Art Unit	2621
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Examiner Name	Tung T Vo
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Attorney Docket Number	13316-3294
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Signature**

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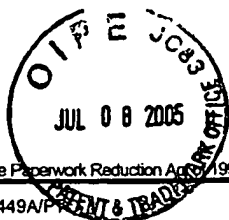
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		Number - Kind Code ² (if known)			
/A/H/	1	US- 2,905,756	09/22/1959	Graham	
	2	US- 4,245,248	01/13/1981	Netravali <i>et al.</i>	
	3	US- 4,394,680	07/19/1983	Watanabe	
	4	US- 4,717,956	01/05/1988	Moorhead <i>et al.</i>	
	5	US- 4,920,414	04/24/1990	Remus <i>et al.</i>	
	6	US- 4,958,226	09/18/1990	Haskell <i>et al.</i>	
	7	US- 4,999,705	03/12/1991	Puri	
	8	US- 5,001,559	03/1991	Gonzales <i>et al.</i>	
	9	US- 5,086,348	02/04/1992	Fujisawa	
	10	US- 5,116,287	05/26/1992	Hironaka <i>et al.</i>	
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	32	US- 5,467,136	11/14/1995	Odaka <i>et al.</i>	

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Sheet 2 of 10

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Application Number	10/811,960
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First Named Inventor	PURI, Atul
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		Number - Kind Code ² (if known)			
/A.H./	33	US- 5,473,376	12/05/1995	Auyeung	
	34	US- 5,488,418	01/30/1996	Mishima <i>et al.</i>	
	35	US- 5,493,513	02/20/1996	Keith <i>et al.</i>	
	36	US- 5,500,678	03/19/1996	Puri	
	37	US- 5,524,024	06/04/1996	Lin	
	38	US- 5,532,747	07/02/1996	Yoon <i>et al.</i>	
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/A.H./	61	US- 5,835,149	11/10/1998	Astle	
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	74	US- 5,978,510	11/02/1999	Chung <i>et al.</i>	
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	82	US- 6,141,442	10/31/2000	Chen	
	83	US- 6,148,026	11/14/2000	Puri <i>et al.</i>	
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	86	US- 6,459,732	10/01/2002	Chen <i>et al.</i>	

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		Country Code ² - Number ³ - Kind Code ⁵ (if known)				
AK	87	EP 0 283 715 A2	09/28/1988	ANT Nachrichtentechnik GmbH		Abs.
	88	EP 0 400 756 A2	12/05/1990	N.V. Philips' Gloeilampenfabrieken Groenewoudseweg		
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	99	CA 2,168,641	03/28/2000	Kabushiki Kaisha Toshiba, JP		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5 of 10

Complete if Known

Application Number	10/811,960
Filing Date	03/30/2004
First Named Inventor	PURI, Atul
Art Unit	2631
Examiner Name	to be assigned
Attorney Docket Number	13316/3294

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/A.H./	100	CHEN, T., MPEG4 Video Verification Model VM 5.0, pages 2-192
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Sheet 6 of 10

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Application Number	10/811,960
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First Named Inventor	PURI, Atul
Art Unit	2631
Examiner Name	to be assigned
Attorney Docket Number	13316/3294

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/A.H./	112	KOK, C. W. <i>et al.</i> : "Image Coding Using DCT of Wavelet Coefficients," Proceedings of the IEEE-SP International Symposium Time-Frequency and Time-Scale Analysis (CT. No. 92TH0478-8), pp. 475-478, XP002115625 1992, NY, NY, IEEE, USA ISBN: 0-7803-0805, Victoria, BC, Canada, 4-6 Oct. 1992
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Application Number	10/811,960
Filing Date	03/30/2004
First Named Inventor	PURI, Atul
Art Unit	2631
Examiner Name	to be assigned
Attorney Docket Number	13316/3294

NON PATENT LITERATURE DOCUMENTS

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Sheet 8 of 10

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Application Number	10/811,960
Filing Date	03/30/2004
First Named Inventor	PURI, Atul
Art Unit	2631
Examiner Name	to be assigned
Attorney Docket Number	13316/3294

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Sheet 9 of 10

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Filing Date	03/30/2004
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Art Unit	2631
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Sheet 10 of 10

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/A.H./	150	PURI <i>et al.</i> , "Scene Description, Composition, and Playback Systems for MPEG-4," SPIE, <i>Visual Communications and Image Processing '99</i> , San Jose, California, pp. 2-13, January 25-27, 1999
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Examiner
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/Anner Holder/

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	10/811,960
Filing Date	March 30, 2004
First Named Inventor	PURI
Art Unit	2631
Examiner Name	Not assigned
Attorney Docket Number	2777/3294

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/A.H./		J. Lee and B.W. Dickinson, "Scene-adaptive motion interpolation structures based on temporal masking in human visual perception," in <i>Proc. SPIE Conference on Visual Comm. and Image Processing</i> , Cambridge, 1993, pp. 499-510.	
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Examiner Signature	/Anner Holder/	Date Considered	02/19/2008
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Sheet 2 of 2

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Application Number	10/811,960
Filing Date	March 30, 2004
First Named Inventor	PURI
Art Unit	2631
Examiner Name	Not assigned
Attorney Docket Number	2777/3294

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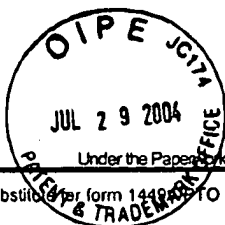
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/A.H./		J. Bescos, G. Cisneros, and J.M. Menendez, "Multidimensional comparison of shot detection algorithms," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 2, pp. 401-403.	
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/A.H./		Jungwoo Lee and Bradley W. Dickinson, "Temporally adaptive motion interpolation exploiting temporal masking in visual perception," <i>IEEE Transactions on Image Processing</i> , vol. 3, no. 5, pp 513-526, Sept. 1994.	

Examiner Signature	/Anner Holder/	Date Considered	02/19/2008
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Sheet 1 of 1

Complete if Known

Application Number	10/811,960
Filing Date	March 30, 2004
First Named Inventor	Atul PURI
Art Unit	2631
Examiner Name	To be assigned
Attorney Docket Number	02777/3294

U.S. PATENT DOCUMENTS

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/A.H./		Siwei Ma et al., "Rate Control for Advance Video Coding (AVC) Standard," <i>Proceedings of the 2003 IEEE International Symposium on Circuits and Systems</i> , Volume II of V, 2003, pp. 892-5.	
/A.H./		Arian Koster, "Coded Representation of Picture and Audio Information," International Organisation for Standardisation, Telecommunication Standardization Sector, Study Group 15, Experts Group for ATM Video Coding (Rapporteur's Group on Part of Q.2/15), Document AVC-491, Version 1, April 1993, 126 pp.	

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